AMENDMENT TO THE CLAIMS

The listing of the claims will replace all prior listings of claims in the application.

1.   (Currently Amended) A data driven information processor, comprising:

~~a data storing means,~~ a packet generating means that includes an oscillating means for generating data packets at an oscillation rate of the oscillating means,

the data packets comprising

a destination field in which destination information for specifying an address in a data memory or an address in a data flow program are stored,

a command field in which command information for an arithmetic processing means or for a data memory interface unit is stored, and

a data field in which operand data is stored;

an input/output control unit that merges data packets inputted from outside the data driven information processor, the arithmetic processing means, the packet generating means or from the data memory interface unit, branches and outputs these data packets to the data memory interface unit, a program storing means or the outside according to destination information stored in the destination field of the data packet, wherein

~~a~~ the program storing means stores a data flow program including a plurality of pairs of destination information and command information, ~~for reading~~ reads a subsequent pair of destination information and command information from an address of the ~~a~~ data flow program specified by the destination information stored in a data packet inputted from the input/output control unit, and writes them to the data packet; ~~stored in the program storing~~

~~means that includes a plurality of pairs of destination information and command information and writing them to a packet,~~

a pair data detecting means <u>that detects two data packets having the same destination information among data packets inputted from the program storing means, writes an operand data of one detected data packet to the data field of the other detected data packet, and outputs the other detected data packet</u> ~~for uniting data in two packets having the same destination information into one packet,~~ <u>wherein</u>

~~an~~ <u>the</u> arithmetic processing means ~~for performing~~ <u>performs</u> arithmetic processing on data written in ~~the~~ <u>a data</u> packet <u>inputted from the pair data detecting means</u> according to command information <u>of</u> ~~written in~~ the <u>data</u> packet<u>, stores the processed result in the data field of the data packet, and outputs the data packet to the input/output control unit,</u> ~~and which performs information processing based on a packet inputted from outside the data driven information processor and the data flow program stored in the program storing means,~~ and

~~a packet generating means that includes an oscillating means for generating a packet at an oscillation rate of the oscillating means~~ <u>the data memory interface unit reads data from and writes data to the data memory based on the destination information and the command information of a data packet inputted from the input/output control unit</u>.

2.   (Original)   The data driven information processor according to Claim 1, wherein

the oscillating means can oscillate in a plurality of frequencies; and

the packet generating means includes a frequency setting means for selecting and setting one oscillation frequency from the plurality of oscillation frequencies.

3.   (Original) The data driven information processor according to Claim 1, wherein

the packet generating means includes a destination setting means for setting the destination information to be written in a generated packet.

4.   (Original) The data driven information processor according to Claim 3, wherein

the destination setting means sets an increment value as the destination information.

5.   (Original) The data driven information processor according to Claim 1, wherein

the packet generating means includes a data setting means for setting data to be written in a generated packet.

6.   (Original) The data driven information processor according to Claim 5, wherein

the data setting means sets a fixed value or a value changed in predetermined units as the data.

7.   (Original)   The data driven information processor according to Claim 1, wherein

after processing according to the written command information is finished, the packet generated by the packet generating means is eliminated.